

What is claimed is:

1. A stamper comprising a stamper layer on a surface of which a fine concave-convex pattern is formed, and a buffer disposed on a side of said stamper layer on which no concave-convex pattern is formed, wherein said buffer has different longitudinal moduli of elasticity.
2. A stamper comprising a fine concave-convex pattern formed on the surface thereof for forming a fine structure on a substrate using a pressing machine, wherein said stamper is flexible, and wherein a buffer is formed on a back side of said stamper opposite to the side thereof on which the concave-convex pattern is formed, said buffer having a longitudinal distribution of moduli of elasticity.
3. The stamper according to claim 2, wherein said buffer is made of different materials with two or more moduli of elasticity.
4. The stamper according to claim 3, wherein the buffer with two or more moduli of elasticity is disposed on the back surface of said stamper by a screen printing method, a stencil printing method, or an inkjet printing method.
5. The stamper according to claim 3, wherein the buffer with two or more moduli of elasticity is formed on the back side of said stamper by irradiation of light.
6. The stamper according to claim 2, wherein the moduli of elasticity of said buffer are adjusted depending on the density of convex portions of the concave-convex pattern.
7. The stamper according to claim 2, wherein the moduli of elasticity of said buffer are adjusted such that a portion of said buffer that corresponds to a portion of said concave-convex pattern that has more convex portions has a high modulus

of elasticity.

8. A transfer apparatus that utilizes the stamper according to claim 1.

9. A stamper comprising a fine concave-convex pattern formed on a surface thereof for forming a fine structure on a substrate using a pressing machine, wherein said stamper is flexible, and wherein a buffer with different thicknesses is formed on a back side of said stamper opposite to the side thereof on which the concave-convex pattern is formed.

10. The stamper according to claim 9, wherein the buffer having a longitudinal distribution of thicknesses is disposed by a screen printing method, a stencil printing method or an inkjet printing method.

11. The stamper according to claim 9, wherein the thickness of said buffer is adjusted depending on the density of convex portions of the concave-convex pattern.

12. The stamper according to claim 9, wherein the thickness of said buffer is adjusted such that a portion of said buffer that corresponds to a portion of the concave-convex pattern that has more convex portions is thin.

13. A transfer apparatus that utilizes the stamper according to claim 9.